

Curriculum Vitae

September 2022

LLOYD A. MANCL

Birthdate: January 9, 1963

Education

Pomona College	1981-1985	B.A.	Mathematics & Philosophy	1985
University of Washington	1986-1988	M.S.	Biostatistics	1988
University of Washington	1988-1992	Ph.D.	Biostatistics	1992

Faculty Appointments

<i>Institution</i>	<i>Department</i>	<i>Rank</i>	<i>Years</i>	<i>% Time</i>
University of Washington	Dental Public Health Sciences	Senior Research Fellow	1992-1995	100
University of Washington	Dental Public Health Sciences	Research Assistant Professor	1995-2002	100
University of Washington	Biostatistics	Adjunct Research Assistant Professor	1995-2002	100
University of Washington	Graduate School	Graduate Faculty	1997-present	100
University of Washington	Dental Public Health Sciences	Research Associate Professor	2002-2011	100
University of Washington	Oral Health Sciences	Research Associate Professor	2011-present	100
University of Washington	Biostatistics	Adjunct Research Associate Professor	2002-present	100
University of Washington	Pediatric Dentistry	Adjunct Research Associate Professor	2004-present	100

Memberships

- American Statistical Association, 1988-present
- American Association of Dental Research, 1992-present
- International Association of Dental Research, 1992-present
- International Biometric Society, 1995-present
- Network for Orofacial Pain and Related Disorders Methodology (formerly International RDC/TMD Consortium), 2004-2020

University Honors and Awards

- NIH-Cardiovascular Predoctoral Training Fellowship, 1986-1991
- NIDR-Oral Epidemiology and Biostatistics Postdoctoral Training Fellowship, 1992-1995

Current Research Projects

- Oral Health Disparities
- Oral Diseases in Individuals with Cystic Fibrosis
- Role of Food Insecurity in Dental and Mental Health Disparities
- Phase 2 Efficacy Evaluation of Anti-Caries Varnish for Primary Prevention

Research Grants

Currently Active

1. **Grant Title:** Understanding Oral Diseases in Cystic Fibrosis to Develop Tailored Preventive Dental Interventions
Principal Investigator: Donald Chi and Margaret Rosenfeld
Granting Agency: NIH/NIDCR Grant Period: 04/14/21 – 4/13/26 Total Direct Costs: \$3,833,688
Role: Biostatistician Percent Effort: 10%
2. **Grant Title:** The Role of Food Insecurity in Shaping Dental and Mental Health Disparities among low-Income Older Adults: Identifying Opportunities for Intervention Development
Principal Investigator: Donald Chi and Jane Lee
Granting Agency: UW Royalty Grant Period: 2021-2022 Total Direct Costs: \$39,799
Research Grant
Role: Biostatistician Percent Effort: 5% for 3 months
3. **Grant Title:** Silver Diamine Fluoride: Novel Addition to the Prophylactic Bundle for Dental Management of Radiation-Induced Dental Caries in Oral and Pharyngeal Cancer Patients
Principal Investigator: Amal Noureldin
Granting Agency: Texas A&M PCRP Grant Period: 12/01/21 – 11/30/23 Total Direct Costs: \$30,334
Role: Biostatistician Percent Effort: 5%
4. **Grant Title:** Phase 2 Efficacy & Safety Evaluation of Advantage Anti-Caries Varnish for Primary Prevention
Principal Investigator: Ohnmar Tut
Granting Agency: Advantage Silver Grant Period: 01/1/17-12/31/24
Dental Arrest
Role: Biostatistician Percent Effort: 10%
5. **Grant Title:** Reducing Sugared Fruit Drinks in Alaska Native Children
Principal Investigator: Donald Chi
Granting Agency: NIH/NIDCR Grant Period: 06/01/2019-05/31/2023 Total Direct Costs: \$1,471,020
Role: Biostatistician Percent Effort: 10%

Previous Activity

1. **Grant Title:** Phase 2 Efficacy Evaluation of Advantage Anti-Caries Varnish
Principal Investigator: Ohnmar Tut
Granting Agency: Advantage Silver Grant Period: 01/1/17-12/31/20
Dental Arrest
Role: Biostatistician Percent Effort: 10-20%
2. **Grant Title:** OHEAL: Oral Health Equity in Alaska
Principal Investigator: Joana Cunha-Cruz
Granting Agency: NIH/NIMHD Grant Period: 09/19/18 – 06/30/20 Total Direct Costs: \$242,089
Role: Biostatistician Percent Effort: 5%
3. **Grant Title:** Oral Health Outcomes Associated with Living in Alaska Native Communities Served by Dental Health Aide Therapists (DHATs): A Mixed-Methods Study
Principal Investigator: Donald Chi
Granting Agency: Pew Charitable Grant Period: 05/01/16 – 3/31/20 Total Direct Costs:
Role: Biostatistician Percent Effort: 10%
4. **Grant Title:** Efficacy of an environmental intervention to prevent dental caries relapse among Latino children treated for early childhood caries
Principal Investigator: Joana Cunha-Cruz
Granting Agency: NIH/NIDCR Grant Period: 09/18/18 – 01/15/20 Total Direct Costs: \$344,352
Role: Biostatistician Percent Effort: 10%
5. **Grant Title:** Oral Health Equity in Alaska (OHEAL): Implementation and Evaluation of Delivery System Changes to Reduce Oral Health Disparities for Native American Children
Principal Investigator: J. Cunha-Cruz
Granting Agency: NIH/NIDCR Grant Period: 09/01/15-08/31/18 Total Direct Costs: \$4,592,613
Role: Biostatistician Percent Effort: 20%
6. **Grant Title:** Oral Health Outcomes Associated with Living in Alaska Native Communities Served by Dental Health Aide Therapists (DHATs)
Principal Investigators: D. Chi

- Granting Agency: Pew Charitable Trust Grant Period: 07/1/16-06/31/17 Total Direct Costs: \$125,000
 Role: Biostatistician Percent Effort: 10%
7. **Grant Title:** Parent Training to Address Pediatric Functional Abdominal Pain
 Principal Investigator: R. Levy
 Granting Agency: NIH Grant Period: 09/05/11-12/31/16 Total Direct Costs: \$450,601
 Role: Biostatistician Percent Effort: 5-10%
8. **Grant Title:** Prospective and Retrospective Analyses of Regenerative Treatment Outcomes in Immature Permanent Teeth
 Co-Principal Investigators: Flake, Khan and Gibbs
 Granting Agency: AAE Grant Period: 01/01/14-12/31/16 Total Direct Costs: \$100,000
 Role: Biostatistician Percent Effort: 10%
9. **Grant Title:** Sugar Sweetened Beverages and Recurrent Severe Early Childhood Caries
 Co-Principal Investigators: J. Cunha-Cruz and P. Milgrom
 Granting Agency: NIH Grant Period: 08/01/15-07/31/16 Total Direct Costs: \$231,750
 Role: Biostatistician Percent Effort: 5%
10. **Grant Title:** Northwest Center to Reduce Oral Health Disparities (U45)
 Principal Investigator: P. Milgrom
 Granting Agency: NIH/NIDCR Grant Period: 9/19/08-5/31/14 Total Direct Costs: \$1,681,970
 Role: PI, Statistics & Data Coordinating Center Percent Effort: 15%-40%
11. **Grant Title:** Dental Homes for Medicaid – Enrolled Children with Autism Spectrum Disorders in the Iowa I-Smile Program
 Principal Investigator: D. Chi
 Granting Agency: MCHB/HRSA Grant Period: 09/01/13-08/31/14 Total Direct Costs: \$64,718
 Role: Biostatistician Percent Effort: 5%
12. **Grant Title:** Data Coordinating Center for the Pacific Northwest DPBRN
 Principal Investigator: B. Leroux
 Granting Agency: NIH/NIDCR Grant Period: 4/01/05-3/31/14 Total Direct Costs: \$7,466,134
 Role: Co-Investigator Percent Effort: 15%-40%
13. **Grant Title:** Diffusion of Anticipatory Guidance to Prevent ECC Disease Transmission: Secondary Analysis of a Dataset From Oregon Care Provider Study
 Principal Investigator: P. Milgrom & D. Grembowski
 Granting Agency: NIH/NIDCR Grant Period: 4/1/11-3/31/13 Total Direct Costs: \$200,000
 Role: Biostatistician Percent Effort: 5%
14. **Grant Title:** The 3D Immersive display: Validation of a virtual reality technique for pain control
 Principal Investigator: Rose
 Granting Agency: NIH Grant Period: 09/15/12-03/14/13
 Role Biostatistician Percent Effort: 5%
15. **Grant Title:** Psychosocial Intervention for Children with Inflammatory Bowel Disease
 Principal Investigator: R. Levy
 Granting Agency: NIH Grant Period: 9/28/07-6/30/13 Total Direct Costs: \$1,278,278
 Role: Biostatistician Percent Effort: 5%
16. **Grant Title:** Clinical, Public Health & Behavioral Oral Health Researching Training for Thailand
 Principal Investigator: T. DeRouen
 Granting Agency: NIH/NIDCR Grant Period: 10/01/06-9/30/11
 Role: Mentor Percent Effort: 0%
17. **Grant Title:** International Collaborative Research to Develop Quantitative Sensory Testing Guidelines for Intraoral Pain Conditions
 Principal Investigator: M. Drangsholt
 Granting Agency: NIH/NIDCR Grant Period: 8/12/08-6/30/11 Total Direct Costs: \$127,440
 Role: Biostatistician Percent Effort: 10%
18. **Grant Title:** PVP-Iodine and Fluoride Varnish to Reduce Caries in High Risk Children (R40)
 Principal Investigator: K. Ly
 Granting Agency: DHHS/HRSA Grant Period: 2/10/10-1/31/13 Total Direct Costs: \$189,485
 Role: Biostatistician Percent Effort: 10%
19. **Grant Title:** Hormonal Cycles in Women: Effects on TMD Pain and Symptoms (R01)

- Principal Investigator: L. LeResche
 Granting Agency: NIH/NIDCR Grant Period: 9/15/04-6/30/09
 Role: Biostatistician Percent Effort: 15%-25%
20. **Grant Title:** Fluoride Varnish to Prevent Caries in Toddlers – An Expanded Immunization Program
 Principal Investigator: P. Milgrom
 Granting Agency: NIH/NIDCR Grant Period: 7/1/07-6/30/09 Total Direct Costs: \$479,785
 Role: Biostatistician Percent Effort: 15%-20%
21. **Grant Title:** Northwest Alaska Center to Reduce Oral Health Disparities (U54)
 Principal Investigator: P. Milgrom
 Granting Agency: NIH/NIDCR Grant Period: 8/1/01-7/31/08 Total Direct Costs: \$9,575,662
 Role: Biostatistician Percent Effort: 5-10%
22. **Grant Title:** Fluoride Varnish in High Caries Pre-Schoolers (R01)
 Principal Investigator: P. Weinstein
 Granting Agency: NIH/NIDCR Grant Period: 8/8/03-4/30/08 Total Direct Costs: \$2,249,566
 Role: Biostatistician Percent Effort: 10%
23. **Grant Title:** Research Diagnostic Criteria: Reliability and Validity (U01)
 Principal Investigator: E. Schiffman, E. Truelove
 Granting Agency: NIH/NIDCR Grant Period: 7/1/01-3/31/07
 Role: Biostatistician Percent Effort: 5%-10%
24. **Grant Title:** Statistical Methods for Dental Research (R01)
 Principal Investigator: L. Leroux
 Granting Agency: NIH/NIDCR Grant Period: 8/20/04-6/30/07 Total Direct Costs: \$515,293
 Role: Co-investigator Percent Effort: 15%-20%
25. **Grant Title:** TMD Longitudinal Studies: Clinical/Chronic Pain Syndromes (Scientific Core–P01)
 Principal Investigator: L. LeResche
 Granting Agency: NIH/NIDCR Grant Period: 9/30/99-8/31/06 Total Direct Costs: \$4,260,420
 Role: Biostatistician Percent Effort: 15%-50% (\$739,869)
26. **Grant Title:** Trial of Oramelts with Licorice Extract for the Treatment of Minor Recurrent Aphthous Ulcers (R41)
 Principal Investigator: M. Martin, J. Sherman
 Granting Agency: NIH/NIDCR Grant Period: 9/1/04-1/31/05 Total Direct Costs: \$98,447
 Role: Biostatistician Percent Effort: 5%
27. **Grant Title:** Menstrual Cycle Effects on TMD Pain and Other Symptoms (R01)
 Principal Investigator: L. LeResche
 Granting Agency: NIH/NIDCR Grant Period: 9/20/98-9/19/04 Total Direct Costs: \$1,383,246
 Role: Biostatistician Percent Effort: 10%-15%
28. **Grant Title:** Comprehensive Oral Health Research Center of Discovery (Biometry Core–P60)
 Principal Investigator: TA. DeRouen (B.G. Leroux)
 Granting Agency: NIH/NIDCR Grant Period: 8/1/99-7/31/04 Total Direct Costs: \$7,517,485
 Role: Biostatistician Percent Effort: 5-10% (\$668,384)
29. **Grant Title:** Development of a Vaccine for Human Periodontitis (R01)
 Principal Investigator: R.C. Page
 Granting Agency: NIH/NIDCR Grant Period: 9/20/99-7/31/02 Total Direct Costs: \$453,625
 Role: Biostatistician Percent Effort: 10%
30. **Grant Title:** International Collaborative Oral Health Research Planning Grant (R21)
 Principal Investigator: SF. Dworkin
 Granting Agency: NIH Grant Period: 7/1/00-6/30/02 Total Direct Costs: \$150,000
 Role: Biostatistician Percent Effort: 5%
31. **Grant Title:** Menstrual Cycle and Blood Pressure Effects on Acute Pain (PA)
 Principal Investigator: J.J. Sherman
 Granting Agency: NIH Grant Period: 4/1/00-3/28/02 Total Direct Costs: \$50,000
 Role: Biostatistician Percent Effort: 5%
32. **Grant Title:** Clinical Dental Research Center (Biometry Core–P30)
 Principal Investigator: R.C. Page (TA. DeRouen)
 Granting Agency: NIH/NIDCR Grant Period: 9/30/96-7/31/01 Total Direct Costs: \$1,618,771
 Role: Biostatistician Percent Effort: 10%-20% (\$457,745)
33. **Grant Title:** Clinical Evaluation of Bonding Agents for Class V Resin Composite Restorations

Principal Investigators: T-C. Aw and X. Lepe

Granting Agency: 3M Dental Products and Coltene AG Grant Period: 12/1/97-6/1/01

Role: Co-Investigator/Biostatistician Percent Effort: 5%

34. **Grant Title:** Humoral Immunity and Periodontal Disease (P01)

Principal Investigator: R.C. Page

Granting Agency: NIH/NIDR Grant Period: 4/1/95-3/31/00 Total Direct Costs: \$2,454,011

Role: Biostatistician Percent Effort: 25%

35. **Grant Title:** TMD Longitudinal Studies: Clinical/Chronic Pain Syndromes (Scientific Core-P01)

Principal Investigator: SF. Dworkin (SF. Dworkin)

Granting Agency: NIH/NIDR Grant Period: 2/1/94-8/31/99 Total Direct Costs: \$3,035,097

Role: Biostatistician Percent Effort: 25% (\$1,013,373)

36. **Grant Title:** Biobehavioral Methods in TMD (R01)

Principal Investigator: SF. Dworkin

Granting Agency: NIH/NIDR Grant Period: 5/1/94-4/30/99 Total Direct Costs: \$1,441,034

Role: Biostatistician Percent Effort: 10%

Publications

Peer-Reviewed Journal Publications

1. DeRouen TA, Mancl LA, Hujoel P. "Measurement of associations in periodontal diseases using statistical methods for dependent data." *Journal of Periodontal Research*, 26, 218-229, 1991.
2. Powell LV, Mancl L, Sneft GD. "Exploration of prediction models for caries risk assessment of the geriatric population." *Community Dentistry and Oral Epidemiology*, 19, 291-295, 1991.
3. Prentice RL, Mancl LA. Contribution to the discussion on the paper by GM Fitzmaurice, NM Laird and AG Rotnitzky, "Regression Models for Discrete Longitudinal Responses." *Statistical Science*, 8, 284-309, 1993.
4. Raadal M, Milgrom P, Cauce AM, Mancl L. "Behavior problems in 5-11 year old children from low-income families." *Journal of the American Academy of Child and Adolescent Psychiatry*, 33, 1017- 1025, 1994.
5. Milgrom P, Mancl L, King B, Weinstein P. "Origins of childhood dental fear: Rachman's theory of fear acquisition applied to a specific fear." *Behaviour Research and Therapy*, 33, 313-319, 1995.
6. Raadal M, Milgrom P, Weinstein P, Mancl L, Cauce AM. "The prevalence of dental anxiety in children from low income families and its relationship to personality traits." *Journal of Dental Research*, 74, 1439-1443, 1995.
7. Robertson PB, DeRouen TA, Ernster V, Grady D, Greene J, Mancl L, McDonald D, Walsh MM. "Smokeless tobacco use and performance of major league baseball players." *Journal of the American Dental Association*, 126, 1115-1120, 1995.
8. Golletz D, Milgrom P, Mancl L. "Dental care satisfaction: The reliability and validity of the DSQ in a low-income population." *Journal of Public Health Dentistry*, 55, 210-217, 1995.
9. DeRouen TA, Hujoel PP, Mancl LA. "Statistical issues in periodontal research." *Journal of Dental Research*, 74, 1731-1737, 1995.
10. Miller JR, Mancl L, Arbuckle G, Baldwin J, Phillips RW. "A three-year clinical trial using a glass ionomer cement for the bonding of orthodontic brackets." *The Angle Orthodontist*, 66, 309-312, 1996.
11. Mancl LA, Leroux B.G. "Efficiency of regression estimates for clustered data." *Biometrics*, 52,500-511, 1996.
12. Milgrom P, Mancl L, King B, Weinstein P, Wells N, Jeffcott E. "An explanatory model of the dental care utilization of low income children." *Medical Care*, 36, 554-566 1998. (**Giddon Award** for Distinguished Research in the Behavioral Sciences. Awarded by the Behavioral Sciences and Health Services Research Group of the International Association of Dental Research, 1999.)
13. Sims TJ, Mancl LA, Braham PH, Bainbridge BW, Page RC. "Antigenic variation and cross-reactivity in *Bacteriodes forsythus* clinical isolates detected by Western blot." *Journal of Clinical Immunology*, 18, 355-367, 1998.
14. Sims TJ, Mancl LA, Braham PH, Page RC. "Antigenic variation in *Bacteriodes forsythus* detected by checkerboard ELISA." *Clinical and Diagnostic Laboratory Immunology*, 5, 725-732, 1998. PMID: PMC95647
15. Mancl LA, Leroux BG, DeRouen TA. "Between-subject and within-subject statistical information in dental research." *Journal of Dental Research*, 79, 1778-1781, 2000.
16. Nakai Y, Milgrom P, Mancl L, Coldwell SE, Domoto PK, Ramsay DS. "Effectiveness of local anesthesia in prediatric dental practice." *Journal of the American Dental Association*, 131, 1699-1705, 2000.
17. Indorf C, Sherry B, Mancl L. "Comparisons of Yupik infant growth measurements with NCHS/CDC reference data." *Alaska Medicine*, 43, 6-12, 2001.

18. Mancl LA, DeRouen TA. "A covariance estimator for GEE with improved small sample properties." *Biometrics*, 57, 126-134, 2001.
19. Turner JA, Dworkin SF, Mancl L, Huggins, KH, Truelove, EL. "The roles of beliefs, catastrophizing, and coping in the functioning of patients with temporomandibular disorders." *Pain*, 92. 41-51, 2001.
20. Jurevic RJ, Chrisman P, Mancl L, Livingston R, Dale BA. "Single-nucleotide polymorphisms and haplotype analysis in β -defensin genes in different ethnic populations. *Genetic Testing*, 6, 261-269, 2002.
21. Dworkin SF, Huggins KH, Wilson L, Mancl L, Turner J, Massoth D, LeResche L, Truelove, E. "A randomized clinical trial using research diagnostic criteria for temporomandibular disorders – Axis II to target clinic cases for a tailored self-care TMD treatment program." *Journal of Orofacial Pain*, 16, 48-63, 2002. (**Giddon Award** for Distinguished Research in the Behavioral Sciences. Awarded by the Behavioral Sciences and Health Services Research Group of the International Association of Dental Research, 2003.)
22. Dworkin SF, Sherman J, Mancl L, Ohrbach RT, LeResche L, Truelove E. "Reliability, validity and clinical utility of RDC/TMD Axis II scales: Depression, non-specific physical symptoms and graded chronic pain." *Journal of Orofacial Pain*, 16, 207-220, 2002.
23. John MT, Hirsch C, Drangsholt M, Mancl LA, Setz JM. "Overbite/overjet are not related to temporomandibular disorders." *Journal of Dental Research*, 81, 164-169, 2002.
24. Page RC, Krall EA, Martin J, Mancl L, Garcia RT. "Validity and accuracy of a risk calculator for future periodontal disease." *Journal of the American Dental Association*, 133, 569-576 2002.
25. Sims TJ, Lernmark A, Mancl LA, Schifferle RE, Smith T, Page RC, Persson GR. "Serum IgG to heat shock proteins and Porphyromonas gingivalis antigens in diabetic patients with periodontitis." *Journal of Clinical Periodontology*, 29, 551-562, 2002.
26. Aw TC, Lepe X, Johnson GH, Mancl LA. "Characteristics of Non-cariou Cervical Lesions: A Clinical Investigation". *Journal of the American Dental Association*, 133, 725-733, 2002.
27. Bhanji S, Williams B, Sheller B, Elwood T, Mancl L. "Transient bacteremia induced by toothbrushing: A comparison of the Sonicare toothbrush versus a conventional toothbrush." *Pediatric Dentistry*, 24, 295-299, 2002. (**Graduate Student Research Award**. Awarded by the American Academy of Pediatric Dentistry, 2002).
28. Dworkin SF, Turner JA, Mancl L, Wilson L, Massoth D, Huggins KH, LeResche L, Truelove E. "A randomized clinical trial of a tailored comprehensive care treatment program for temporomandibular disorders." *Journal of Orofacial Pain*, 16, 259-76, 2002.
29. Rammelsburg P, LeResche L, Dworkin S, Mancl L. "Longitudinal outcome of TMD: A five-year epidemiological study of muscle disorders defined by RDC/TMD." *Journal of Orofacial Pain*, 17, 9-20, 2003.
30. Persson GR, Mancl LA, Martin J, Page RC. "Assessing periodontal disease risk: A comparison of clinician's assessment versus a computerized tool." *Journal of the American Dental Association*, 134, 575-582, 2003.
31. Page RC, Martin J, Krall EA, Mancl L, Garcia R. "Longitudinal validation of a risk calculator for periodontal disease." *Journal of Clinical Periodontology*, 30, 819-827, 2003.
32. Sheller B, Williams BJ, Hays K, Mancl L. "Reasons for repeat dental treatment under general anesthesia for the healthy child." *Pediatric Dentistry*, 25, 546-552, 2003.
33. LeResche L, Mancl L, Sherman JJ, Gandara B, Dworkin SF. "Changes in temporomandibular pain and other symptoms across the menstrual cycle." *Pain*, 106, 253-261, 2003.
34. Mancl LA, Hujoel PP, DeRouen TA. "Efficiency issues among statistical methods for demonstrating efficacy of caries prevention – site versus subject." *Journal of Dental Research*, 83 (Special Issue C), C95-C98, 2004.
35. Roberts FA, Houston LS, Lukehart SA, Mancl LA, Persson GR, Page RC. "Periodontitis vaccine decreases local prostaglandin E₂ levels in a primate model." *Infection and Immunity*, 72, 1166-1168, 2004. PMID: PMC321623
36. Aaron L, Mancl L, Turner J, Sawchuk C, Klein K. "Reasons for missing interviews in the daily electronic assessment of pain, mood, and stress." *Pain*, 109,389-398, 2004.
37. Epstein JB, Truelove EL, Huggins KH, Mancl LA, Chen A, Press OW, Petersdorf SH, Fritsche TR, Epstein JD. "Topical polyene antifungals in hematopietic cell transplant patients: tolerability and efficacy." *Support Care Cancer*, 12, 517-525, 2004.
38. Turner JA, Mancl L, Aaron LA. "Pain-related catastrophizing: a daily process study." *Pain*, 110, 103-111, 2004.
39. Baier, K, Milgrom P, Mancl L. "Children's fear and behavior in private pediatric dentistry practices." *Pediatric Dentistry*, 26, 316-321, 2004.
40. Sherman JJ, LeResche L, Huggins KH, Mancl LA, Sage JC, Dworkin SF. "The relationship of somatization and depression to experimental pain response in women with temporomandibular disorders", *Psychosomatic Medicine*, 66, 852-860, 2004.
41. Aw TC, Lepe X, Johnson G, Mancl L. "One-year clinical evaluation of an ethanol-based and solvent-free dentin adhesive." *American Journal of Dentistry*, 17, 451-456, 2004.

42. Woo D, Sheller B, Williams B, Mancl L. "Dentists' and parents' perceptions of health, esthetics, and treatment of maxillary primary incisors." *Pediatric Dentistry*, 27, 19-23, 2005.
43. Pawlowski AP, Chen A, Hacker BM, Mancl LA, Page RC, Roberts FA. "Clinical effects of scaling and root planning on untreated teeth." *Journal of Clinical Periodontology*, 32, 21-28, 2005.
44. Aaron LA, Turner JA, Mancl L, Brister H, Sawchuk CN. "Electronic diary assessment of pain-related variables: Is reactivity a problem?" *Journal of Pain*, 6, 107-115, 2005.
45. Aw, TC, Lepe X, Johnson GH, Mancl LA. "Three-year clinical evaluation of two-bottle vs. one-bottle dentin adhesives." *Journal of the American Dental Association*, 136, 311-322, 2005.
46. Sherman JJ, LeResche L, Mancl LA, Huggins KH, Sage JC, Dworkin SF. "Cyclic effects on experimental pain response in women with TMD." *Journal of Orofacial Pain*, 19, 133-143, 2005.
47. LeResche L, Sherman JJ, Huggins KH, Saunders K, Mancl LA, Lentz G, Dworkin SF. "Musculoskeletal orofacial pain and other signs and symptoms of temporomandibular disorders during pregnancy: prospective study." *Journal of Orofacial Pain*, 19, 193-201, 2005.
48. Hirsch C, John MT, Drangsholt MT, Mancl LA. "Relationship between overbite/overjet and clicking or crepitus of the temporomandibular joint." *Journal of Orofacial Pain*, 19, 218-225, 2005.
49. Turner JA, Brister H, Huggins K, Mancl L, Aaron LA, Truelove EL. "Catastrophizing is associated with clinical examination findings, activity interference, and health care use among patients with temporomandibular disorders (TMD)." *Journal of Orofacial Pain*, 19, 291-300, 2005.
50. Turner JA, Mancl L, Aaron LA. "Brief cognitive-behavioral therapy for temporomandibular disorder pain: Effects on daily electronic outcome and process measures." *Pain*, 117, 377-387, 2005.
51. John MT, Dworkin SF, Mancl LA. "Reliability of clinical temporomandibular disorder diagnoses." *Pain*, 118, 61-69, 2005.
52. LeResche L, Mancl LA, Drangsholt MT, Saunders K, Von Korff M. "Relationship of pain and symptoms to pubertal development in adolescent." *Pain*, 118, 201-209, 2005.
53. Miller JR, Mancl L, Critchlow C. "Severe retrognathia as a risk factor for recent onset painful TMJ disorders among adult females." *Journal of Orthodontics*, 32, 249-256, 2005.
54. Leroux BG, Mancl LA, DeRouen TA. "Group sequential testing in dental clinical trials with longitudinal data on multiple outcome variables." *Statistical Methods in Medical Research*, 14, 591-602, 2005.
55. Rowley ST, Sheller B, Williams BJ, Mancl L. "Pediatric dental emergencies: Patient characteristics, social, and economic factors." *Pediatric Dentistry*, 28, 10-17, 2006.
56. Turner JA, Mancl L, Aaron LA. "Short- and long-term efficacy of brief cognitive-behavioral therapy for patients with chronic temporomandibular pain: a randomized, controlled trial." *Pain*, 121, 181-194, 2006.
57. Brister H, Turner JA, Aaron LA, Mancl L. "Self-efficacy is associated with pain, functioning, and coping in patients with chronic temporomandibular disorder pain." *Journal of Orofacial Pain*, 20, 115-124, 2006.
58. Aaron LA, Turner JA, Mancl LA, Sawchuk CN, Huggins KH, Truelove EL. "Daily pain coping among patients with chronic temporomandibular disorder pain: An electronic diary study." *Journal of Orofacial Pain*, 20, 125-127, 2006.
59. Richardson LP, Garrison MM, Drangsholt M, Mancl L, LeResche L. "Associations between depression and obesity during puberty." *General Hospital Psychiatry*, 28, 313-320, 2006.
60. Truelove E, Huggins KH, Mancl L, Dworkin SF. "The efficacy of traditional, low-cost and nonsplint therapies for temporomandibular disorder. A randomized controlled trial." *Journal of the American Dental Association*, 137, 1099-1107, 2006.
61. Smith JM, Wong CS, Salamonik EB, Hacker BM, McDonald RA, Mancl LA, Williams BJ, Ibrahim A, Roberts FA. "Sonic tooth brushing reduces gingival overgrowth in renal transplant recipients." *Pediatric Nephrology*, 21, 1753-1759, 2006.
62. Nam J, Riagrodski AJ, Townsend J, Lepe X, Mancl LA. "Assessment of preference of mixing techniques and duration of mixing and tray loading for two viscosities of vinyl polysiloxane materials." *Journal of Prosthetic Dentistry*, 97, 12-17, 2007.
63. Turner JA, Holtzman S, Mancl L. "Mediators, moderators, and predictors of therapeutic change in cognitive-behavioral therapy for chronic pain." *Pain*, 127, 276-286, 2007.
64. Saunders K, Von Korff M, LeResche L, Mancl L. "Relationship of common pain conditions in mothers and children." *The Clinical Journal of Pain*, 23, 204-213, 2007.
65. Gandara BK, LeResche L, Mancl L. "Patterns of salivary estradiol and progesterone across the menstrual cycle." *Annals of the New York Academy of Sciences*, 1098, 4446-450, 2007. PMID: PMC2096416
66. LeResche L, Mancl LA, Drangsholt MT, Huang G. "Predictors of onset of facial pain and temporomandibular disorders in early adolescents." *Pain*, 129, 269-278, 2007. PMID: PMC1979093 (IADR **Aubrey Sheiham Award** for Distinguished Research in Dental Public Health Sciences, 2008)

67. Page RC, Lantz MS, Darveau R, Jeffcoat M, Mancl L, Houston L, Braham P, Persson GR. "Immunization of *Macaca fascicularis* against experimental periodontitis using a vaccine containing cysteine proteases purified from *Porphyromonas gingivalis*." *Oral Microbiology Immunology*, 22, 162-168, 2007.
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108. Levy R, Langer SL, Romano J, Mancl LA, Murphy T, Walker LS, van Tilburg MA, DuPen M, Feld SI, Abdullah B, Whitehead WE. Results of a Large RCT Testing the Effect of Cognitive Behavior Therapy on School Absences, Quality of Life and Flares in Pediatric IBD. *Gastroenterology*, 148(4): S71-S71, 2015.
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114. Jacobsen D, Jacobsen J, Leong T, Lourenco S, Mancl L, Chi D. Evaluating an app-based game to improve child toothbrushing behaviors. *Journal of Dental Research*, 98 (Special Issue A): 3499, 2019.
115. Milgrom P, Ohnmar T, Rothen M, Mancl L, Gallen M, Tanzer J. Efficacy of an anti-caries varnish: Results of phase 2 RCT. *Journal of Dental Research*, 99 (Special Issue A): 284, 2020.
116. Hwang I, Armijo L, Mancl L, Houg K, Romanyk D, Popowics T. Effect of PDL fiberotomy/collagenase on mechanics during in-vitro loading. *Journal of Dental Research*, 100 (Special Issue A): 0352, 2021.

Other Abstracts

1. Turner J, Brister L, Aaron L, Mancl L, Huggins K, Truelove E. Association of self-efficacy with pain, functioning, and coping among patients with temporomandibular disorder pain. American Pain Society, 2005 (www.ampainsoc.org).
2. Benton T, Weinstein P, Mancl L. Oral health in rural Hispanic-American children: How far have we come? American Public Health Association, 2005 (www.apha.org).

Technical Reports

1. Mancl LA, DeRouen TA. "Small sample properties of generalized estimating equation methods relevant to clinical studies of periodontal disease." Biometry Core Technical Report No. 9402, Seattle, WA: Regional Clinical Dental Research Center of the University of Washington, 1994.
2. Mancl LA. "GEEPLUS SAS macro for regression modeling of correlated and longitudinal data (Version 1)." Biometry Core Technical Report No. 9503, Seattle, WA: Regional Clinical Dental Research Center of the University of Washington, 1995.
3. Mancl LA, Leroux BG. "Efficiency of regression estimates for clustered data." Biometry Core Technical Report No. 9501, Seattle, WA: Regional Clinical Dental Research Center of the University of Washington, 1995.
4. Mancl L, Whitney C, Zhu X. "A SAS computer program to evaluate the research diagnostic criteria for classification of temporomandibular disorders." Biometry Core Technical Report No. 9401 (Corrected), Seattle, WA: Regional Clinical Dental Research Center of the University of Washington, 1999.

Presentations

National and International Meetings

1. Mancl LA, Prentice RL. "Evaluation of estimating equation approaches for mean and covariance parameter estimation." Annual Meeting of the American Statistical Association, San Francisco, CA, August 1993.
2. Mancl LA, DeRouen TA. "Small sample performance of GEE statistical methods in periodontal studies." IADR, Seattle, WA, March 1994.
3. Mancl LA, Leroux BG, DeRouen TA. "A potential problem in regression modeling with correlated data from periodontal studies?" EPI Forum of NIDR Oral Epidemiology and Biostatistics Fellows, San Antonio, TX, March 1995.
4. Mancl LA, Leroux BG. "Evaluation of between- and within-subject effects for the analysis of clustered data." Annual Meeting of the American Statistical Association, Dallas, TX, August 1998.
5. Persson GR, Page RC, Mancl LA, Martin JA. "Expert validation of a risk calculator for future periodontal disease." IADR/AADR, San Diego, CA, 2002.
6. Mancl LA. "Longitudinal studies of orofacial pain: Findings and statistical considerations." Symposium on Longitudinal Studies of Orofacial Pain: Challenges and New Findings. IADR/AADR, Baltimore, MD, 2005.
7. Mancl L, Berg J, Cunha-Cruz J, Brossel K, Scott J, Wilson N, N.W. Precedent. "Association between medication usage and saliva characteristics." IADR/AADR/CADR, 89th General Session, San Diego, CA, 2011.

Invited Talks

1. Mancl L, Hujoel P, DeRouen TA. "Efficiency issues among statistical methods for demonstrating efficacy of caries prevention – site versus subject." International Consensus Workshop on Caries Clinical Trials (ICW-CCT), Scotland January 2002.
2. Mancl LA, DeRouen TA, Leroux BG, Spiekerman C, Hujoel P. "Use of generalized estimating equations (GEE) for analysis of correlated data in dental research." Workshop, Proctor & Gamble, Cincinnati, OH, November 2002.
3. Mancl L. "Fundamentals of Biostatistics." The 2nd UW/TU/KKU Workshop on Clinical Research Methods in Oral Health, Phuket, Thailand, September 2009.
4. Mancl L, Spiekerman C. "Advance Regression Methods" IADR Academy/Satellite Symposium: Updates in Clinical Research Methodology. IADR/AADR, Seattle, WA 2013.

Other Scientific Presentations

1. Mancl LA, Leroux BG. "Effect of correlation structure on relative efficiency of regression estimates for clustered data." Winter Meeting of the American Statistical Association, Raleigh, NC, January 1995.
2. Mancl LA. "Impact of between- and within-subject effects on the evaluation of risk factors and treatments for periodontal disease." Task Force on Design and Analysis, Newark, NJ, May 1998.

Teaching Responsibilities

2022 (Winter Qtr.)	BIOST 597 3 credits	Complete responsibilities
2016-2022 (Summer Qtr.)	BIOST 579 2 credits	Complete responsibilities

2017-2022 (Fall Qtr.)	BIOST 310 4 credits	Complete responsibilities
2016-2017, 2021 (Spring Qtr.)	BIOST 310 4 credits	Complete responsibilities
2012-2022 (Summer Qtr.)	UCONJ 510 2 credits	Complete responsibilities
2012-2021 (Winter Qtr.)	BIOST 502 4 credits	Complete responsibilities
2017-2021 (Spring Qtr.)	BIOST 503 3 credits	Complete responsibilities
2012-2016 (Fall Qtr.)	BIOST 503 3 credits	Complete responsibilities
2018-2022 (Summer Qtr.)	RES D 570, 600	Assisted by giving two lectures
2009-2017 (Fall Qtr.)	RES D 570	Assisted by giving two lectures
1995-2011 (Summer Qtr.)	BIOST 503 4 credits	Complete responsibilities
2002-2010 (Summer Qtr.)	BIOST 502 4 credits	Complete responsibilities
2002-2004 (Summer Qtr.)	DPHS 550 2 credits	Assisted by giving two lectures
1997-2001 (Summer Qtr.)	DPHS 569 2 credits	Assisted by giving two lectures
2016-2019 (Summer Qtr.)	Behavioral Methods, Summer Institute in Clinical Dental Research Methods	Assisted by giving one lecture
1993-1995 (Summer Qtr.)	Data Analysis Workshop, Summer Institute in Clinical Dental Research Methods	Complete responsibilities

Dissertation and Thesis Committees

Julie Stoner (Biostatistics Dissertation, 1999-2000)
 Dawn Woo (Pediatric Dentistry Thesis, 2000-2001)
 Allison Laks (Health Services Thesis, 2000-2001)
 Shamsi Bhangi (Pediatric Dentistry Thesis, 2000-2001)
 Krista Baier (Pediatric Dentistry Thesis, 2001-2002)
 John Barrett (Health Services Thesis, 2001-2002)
 Connie Nakano (Health Services Thesis, 2001-2003)
 Scott Rowley (Pediatric Dentistry Thesis, 2003-2004)
 Jennifer Marshall (Pediatric Dentistry Thesis, 2003-2004)
 George Michael (Orthodontic Thesis, 2003-2005)
 Erik Landaas (Health Services Thesis, 2003-2005)
 Kristen Johannsen (Pediatric Dentistry Thesis, 2004-2005)
 Victoria Vu (Pediatric Dentistry Thesis, 2004-2005)
 Kate Slotnick (Health Services Thesis, 2006)
 Amy Leudemann (Pediatric Dentistry Thesis, 2005-2007)
 Crystal Gust (Health Services Thesis, 2006-2008)
 Emily Jo Rajotte (Health Services Thesis, 2007)
 Athena Seegert (Pediatric Dentistry Thesis, 2007-2008)
 Carrie Trujillo (Health Services Thesis, 2007-2009)
 Shukan Kanuga (Pediatric Dentistry Thesis, 2007-2009)
 Azita Kamkar (Health Services Thesis, 2007-2009)
 Deborah Hoyer (Health Services Thesis, 2009-2010)
 Cara Mudd (Pediatric Dentistry Thesis, 2008-2010)
 Gillian Schauer (Health Services Thesis, 2009-2010)
 Lynne Gordon (Health Services Thesis, 2009-2010)
 Mona Chen (Prosthodontics Thesis, 2010)
 Sandy Bodner (Health Services Thesis, Chair, 2010-2011)
 Sharareh Tajbakhsh (Prosthodontics Thesis, 2009-2011)
 Richard Ansong (Prosthodontics Thesis, 2011-2012)
 Junping Bergen (Prosthodontics Thesis, 2012)
 Cris Pinzon (Health Thesis, 2012-2013)
 Salima Alibhai (Health Services Thesis, Chair, 2012-2013)
 Sumeia Werfallis (Oral Medicine Thesis, 2012-2013)
 Mohamed Abdi (Health Services Capstone, Chair, 2013)
 Nour Chida (Health Services Thesis, 2013-2014)
 Satoshi Go (Prosthodontics Thesis, 2013)
 Otani Takafumi (Prosthodontics Thesis, 2013-2014)

Vania Rudolf (Health Services Thesis, Chair, 2013-2014)
Miranda Davis (Health Services Thesis, Chair, 2012-2014)
Cynthia Jackson (Health Services Thesis, 2012-2014)
Donna Chow (Health Services Thesis, 2012-2014)
Erin Masterson (Epidemiology Dissertation, 2014-2016)
Patty Montgomery (Health Services Thesis, Chair, 2015-2016)
Gabrielle Gundersen (Health Services Thesis, 2015-2016)
Alaa Alkahateeb (Oral Health Sciences Capstone, 2015-2016)
Maia Thomas (Health Services Thesis, 2016-2017)
Ahmed Elzawi (Oral Medicine Thesis, 2015-2017)
Susee Ravuri (Oral Medicine Thesis, 2015-2017)
Rashmi Mahorta (Oral Medicine Thesis, 2016-2017)
Rachael Baker (Health Services Thesis, Chair, 2017-2018)
Libby Hutter (Health Services Thesis, 2016-2018)
Yasmin Fadol (Oral Medicine Thesis, 2017-2018)
Ryan Pett (Health Services Thesis, 2018-2019)
Jasmine Olson (Oral Medicine Thesis, 2018-2019)
Yumie Park (Health Services Capstone, Chair, 2018-2019)
Shari Ballard (Health Services Thesis, Chair, 2019-2020)
Gabi Aargon-Meyer (Orthodontic Thesis, 2020-2021)
Alaa Alkahateeb (Oral Health Sciences Dissertation, 2019-2022)
Erica Frenkel (Orthodontics Thesis, 2021-2022)
Anna Larsen (Epidemiology Dissertation, GSR, 2020-2022)
Miranda Delawalla (Epidemiology Dissertation, GSR, 2020-2022)
Michael Hussey (Epidemiology Dissertation, GSR, 2021-present)

Other Student Mentoring

Whitey Gibbon (Dental SURF student, 2005-2006)
Mark Stapleton (Pediatric Dentistry Thesis, 2006)
Yoo-Lee Yea (Pediatric Dentistry Thesis, 2006)
Jung Nam (Restorative Dentistry Thesis, 2005-2006)
Mikealy Moore (Dental SURF student, 2006)
Hamid Ashkanani (Prosthodontics Thesis, 2007)
Kristi Linsenmayer (Pediatric Dentistry Thesis, 2007)
Stephen Himley (Health Services Thesis, 2007)
Troy Hull (Pediatric Dentistry Thesis, 2008)
Ara Ghandhari (Dental SURF student, 2008)
Seung Yu (Dental SURF student, 2007-2009)
Julia Richman (Pediatric Dentistry Thesis, 2008-2009)
Robert Walter (Restorative Dentistry Thesis, 2008-2009)
Lisa Heaton (Post-doctoral Fellow, 2009-2013)
Donald Chi (Post-doctoral Fellow, 2009-2013)
Molly Melbye (Post-doctoral Fellow, 2009-2013)
Rachel Thompson (Health Services, Independent Study, Summer 2013, Winter 2014)
Sara Finkleman (Orthodontics Thesis, 2018)
Amit Gharpure (Periodontics Thesis, 2020)
Melissa Casey (Health Services Thesis, 2020)
Emily Knott (Orthodontics Thesis, 2020-2021)
Leigh Armijo (Orthodontics Thesis, 2020-2021)
Shruthi Pelluri (OHS Thesis, 2020-2021)
Shale Ninneman (Periodontics Thesis, 2020-2021)
Ida Zarrabi (Periodontics Thesis, 2020-2021)
Saumya Prajapati (Periodontics Thesis, 2020-2021)
Lauren Hagel (Orthodontics Thesis, 2021-2022)
Sara Finkleman (Orthodontics Thesis, 2021-2022)

Anna Morrow (Orthodontics Thesis, 2021-2022)
Ellen Hoang (Orthodontics Thesis, 2021-present)
Kaitlyn Tom (Orthodontics Thesis, 2021-present)
Sherry Wan (Orthodontics Thesis, 2021-present)
Ameen Shahnam (Orthodontic Thesis, 2021-present)

Committee Service

Clinical Study Oversight Committee (CSOC) for Localized Aggressive Periodontitis/Biology of Periodontitis, NIH/NIDCR (2015-present)
Data Safety and Monitoring Board (DSMB) for Behavioral Family Support for Children's Oral Health, NIH/NIDCR (2021-present)
Data Safety and Monitoring Board (DSMB) for Oral Cancer Screening and Diagnosis, NIH/NIDCR (2022-present)
Research Advisory Committee, School of Dentistry, 2000-2007 (Chair, 2003-2005), 2014-2017, 2021-present
Faculty Council, School of Dentistry, 2009-2011, 2012-2014, 2021-present
Assistant Teaching Professor faculty search committee, Biostatistics, School of Public Health, 2021-2022
Admissions Committee, Executive MPH program, Health Services, School of Public Health, 2001-2021 (Chair, 2011-2014)
Curriculum Committee, Executive MPH program, Health Services, School of Public Health, 2012-2013, 2015-2019
Information and Educational Technology Committee, School of Dentistry, 2015-2018
Graduate Prosthodontics Program Director Search Committee, School of Dentistry, 2015-2017
Clinical Study Oversight Committee (CSOC) for An Implementation and Biobehavioral Study of TMJMD, NIH/NIDCR (2013-2014)
Applied Exam Committee, Biostatistics Department, 2008, 2012-2018 (Grader only 2015-2018)
DPHS Chair (Internal) Search Committee, Chair, 2003
Hack Estate Endowment Committee, 2002-2005
Equipment Allocation Committee, School of Dentistry, 1995

Professional Service

Section Editor for International Journal of Paediatric Dentistry, 2021-present.

Reviewer for the following Journals:

Annals of Applied Statistics
Annals of Statistics
BioMed Research International
Biometrical Journal
Biometrics
Biometrika
Biostatistics
BMC Musculoskeletal Disorders
BMC Oral Health
BMC Public Health
Caries Research
Communications in Statistics: Simulation and Computation
Communications in Statistics: Theory and Methods
Community Dentistry and Oral Epidemiology
Computational Statistics and Data Analysis
European Journal of Oral Sciences
European Journal of Pain
Infection and Immunity
International Journal of Environmental Research and Public Health
International Journal of Paediatric Dentistry
Journal of the American Statistical Association

Journal of Clinical Epidemiology
Journal of Dental Research
Journal of Educational and Behavioral Statistics
Journal of Oral & Facial Pain and Headache
Journal of Orofacial Pain
Journal of Periodontal Research
Journal of Periodontology
Journal of Prosthodontic Research
Journal of Public Health Dentistry
Journal of Statistical Computation and Simulation
Operative Dentistry
Pain
Pain Research and Management
Pediatrics
Pharmaceutical Statistics
Sankhya, Statistical Modeling
Statistics in Medicine

Community Service

Youth Soccer Coach – Lake City Soccer Club, 1999-2001. LVR Soccer Club, 2001-2015.
Tutor – Bryant Elementary School, 2001-2002, 2004-2007.

Consulting

Pascal Company, Inc., Bellevue, Washington, 1991. Safety and efficacy study of gingival retraction cord.
Institute of Molecular Biology, Inc., Boston Massachusetts, 1994. Phase I/II periodontal disease study.
Dental Medicine International, Inc., 2000-2001. Risk calculator for periodontal disease.
Philips Oral Healthcare, Inc., 2002-2004. Sonicare toothbrush studies.